GOLIGORSKIY, S.D.; ANESTIADE, H.Kh.; KUKIN, H.H., professor, direktor.

Empyema of the stump of the ureter. Klin.med. 31 no.3:87 Mr '53.
(MIRA 5:5)

1. Fakul'tetskaya khirurgicheskaya klinika Kishinevakogo meditsinakogo inatituta na baze Respublikanskoy klinicheskoy bol'nitsy.
(Ureters--Dimenses) (Empyema)

GOLIGORSKIY, S.D. (Kishinev); TSEBYRNE, K.A. (Kishinev); SHOYKEET, R.N. (Kishinev)

Treatment of acuts nonspecific cystitis with presected novocaine-penicilin blocks. Klin.med. 32 no.1:24 Ja 154. (MERA 7:4)

1. Iz fakul tetskoy khirurgicheskoy kliniki (direktor - professor N.N.Kukin) Kishinevskogo msditsinskogo instituta i Hespublikanskoy klinicheskoy bol'nitsy.

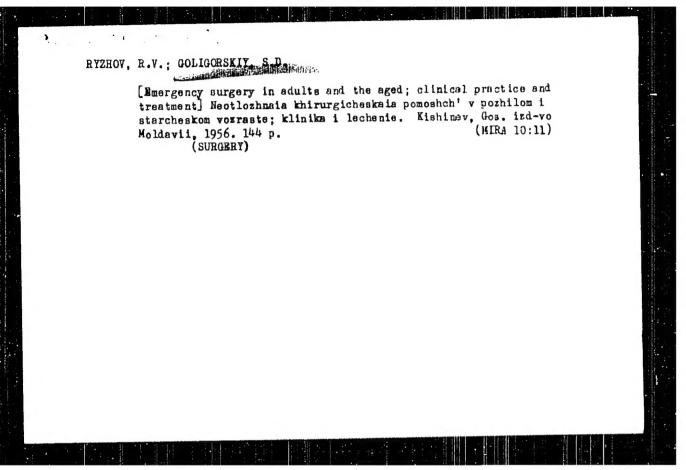
(Bladder--Inflammatica) (Penicillin) (Novocaine)

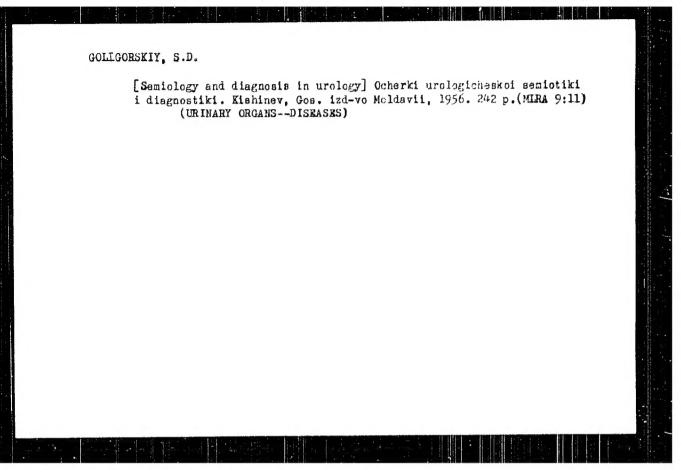
GOLIGORSKIY, S.D., kandidat meditsinskikh nauk; BAHDIYER, L.G.

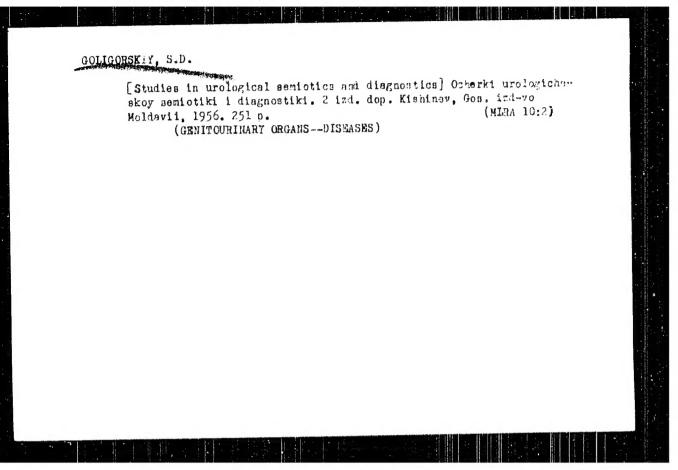
Michelson's vesico-signoid anastomosis in total epispadias.
Urologiia no.2:78-79 Ap-Je '55. (HLRA 8:10)

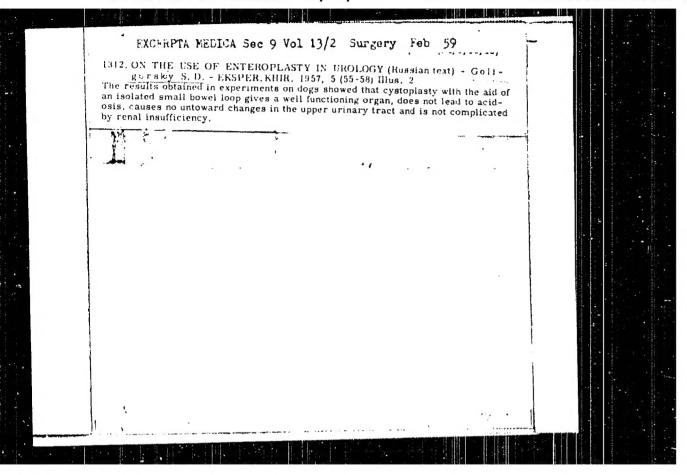
1. Iz gospital'noy khirurgicheskoy kliniki (zav.--prof.
P.V.Ryzhov) Kishinevskogo meditsinskogo instituta na bane
Ranguhlikanskov klinicheskov bol'nitsv (glavnyy vrach
M.G.Zagarskikh)

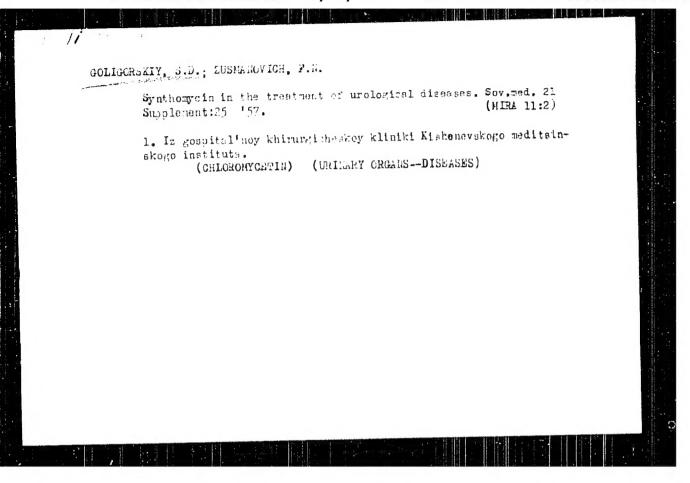
(EPISPADIAS, surgery,
vesico-signoid anastomosis)

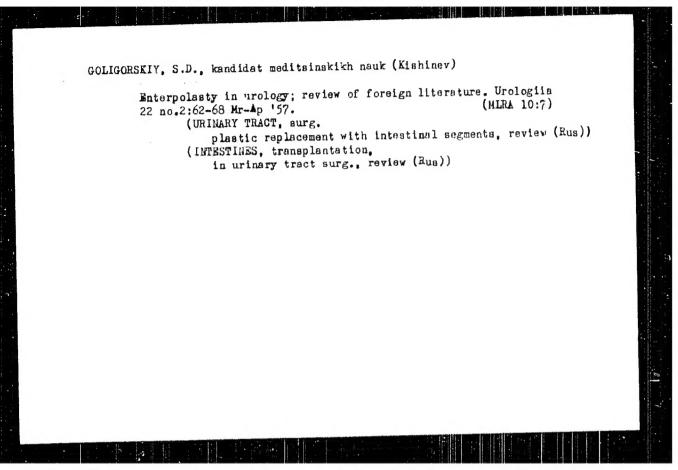


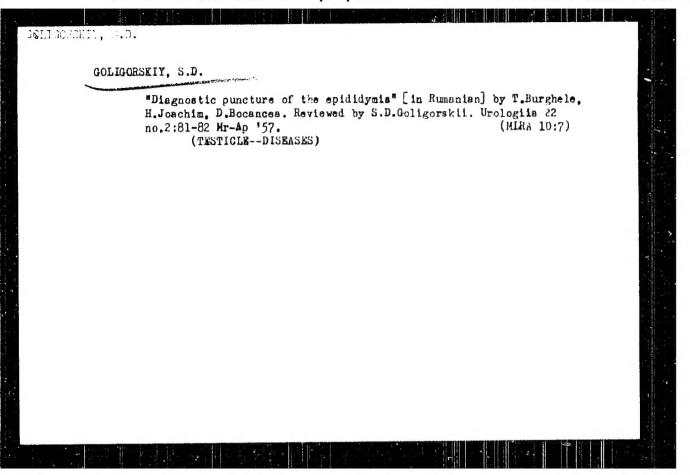


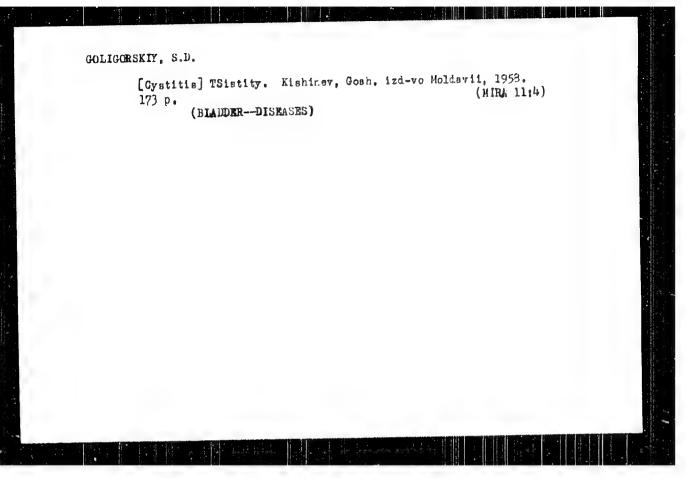


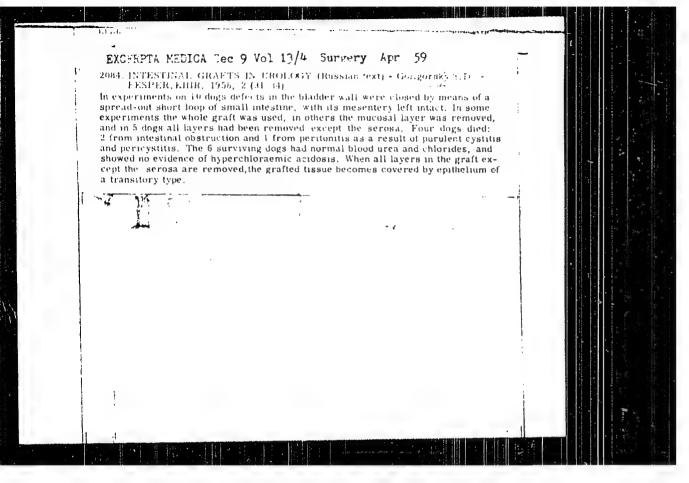


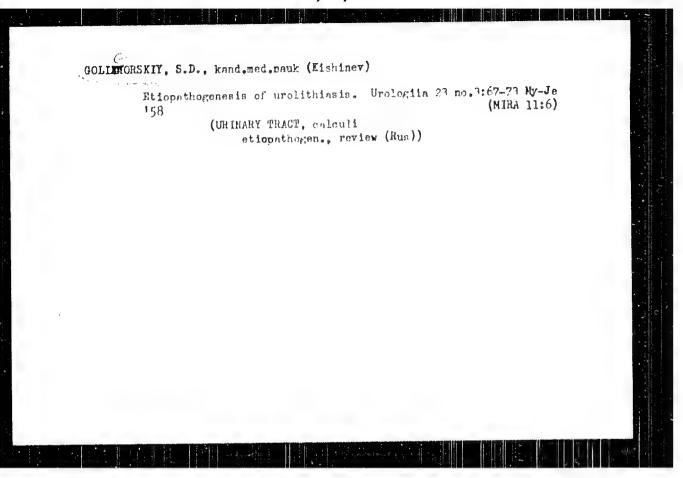


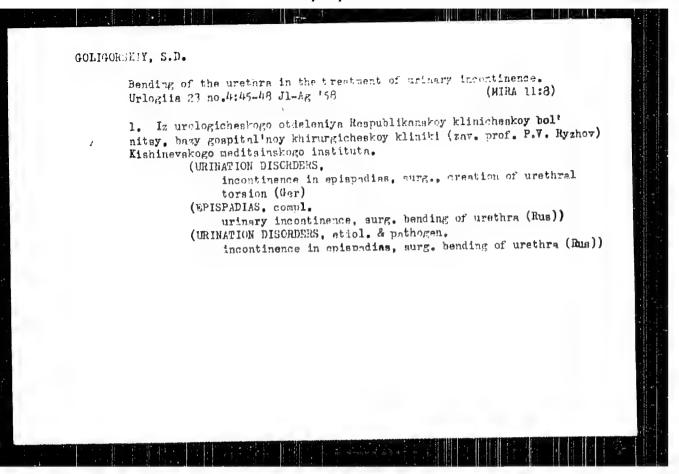


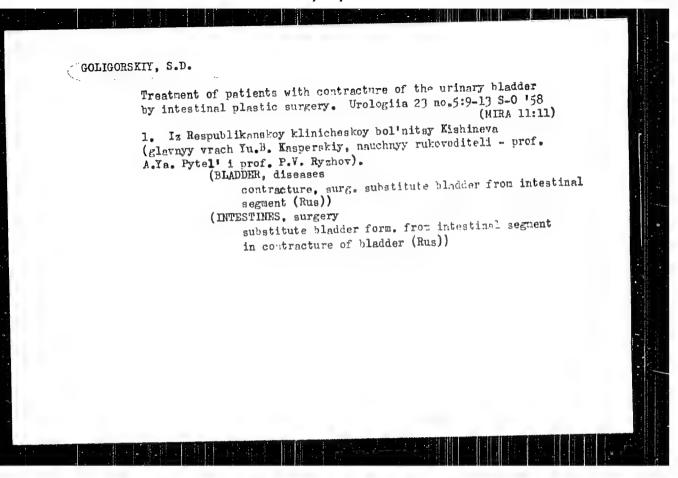


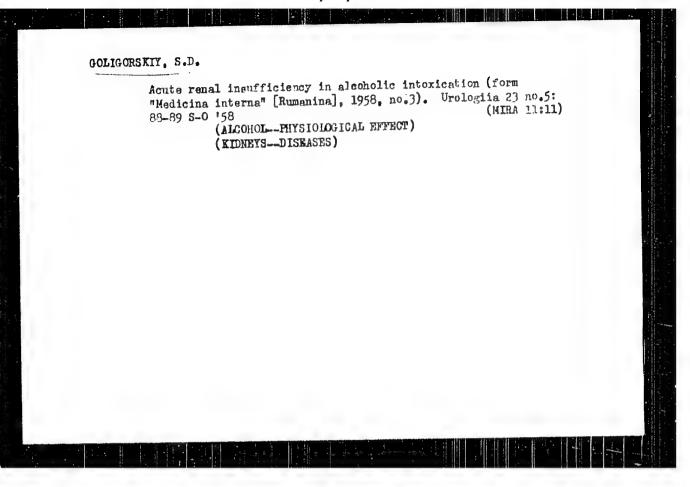


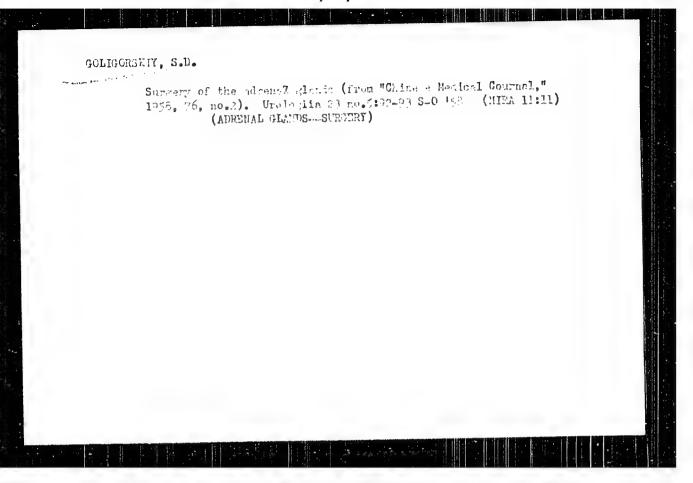




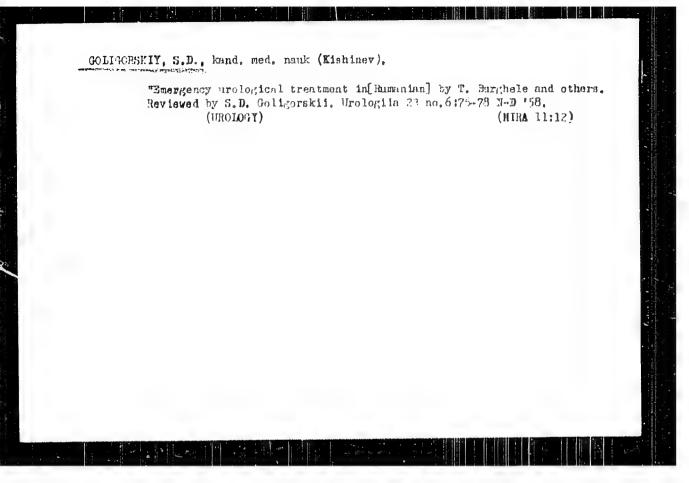


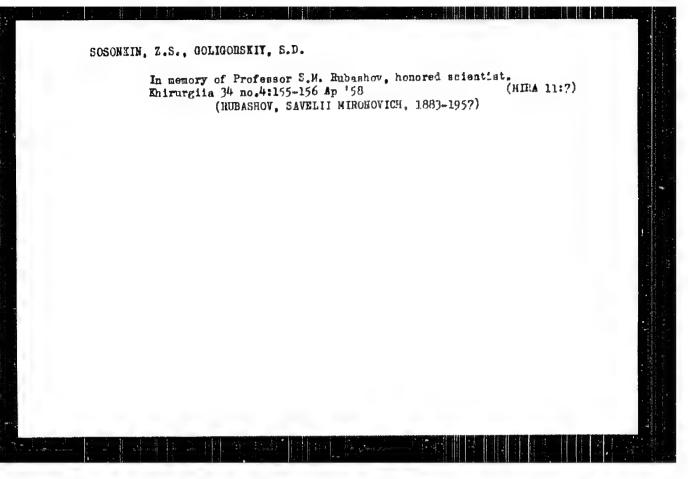




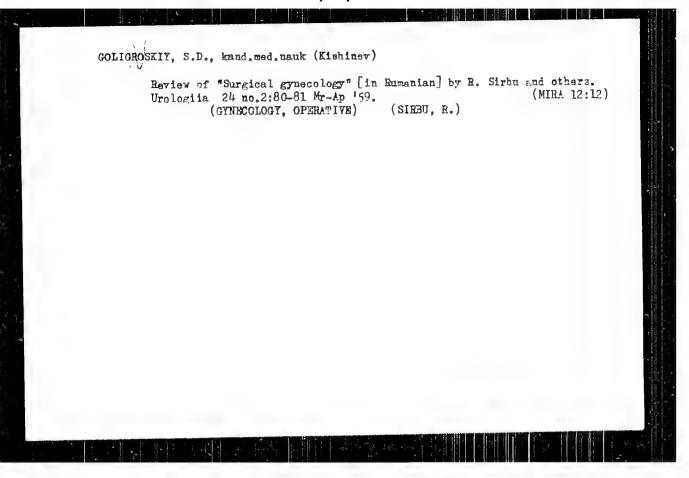


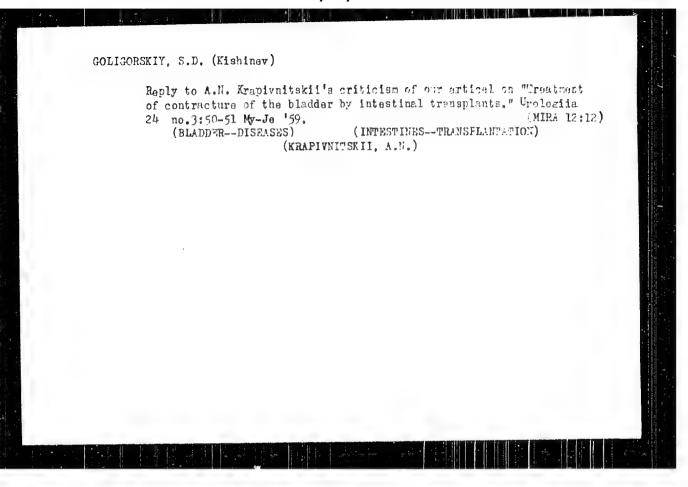












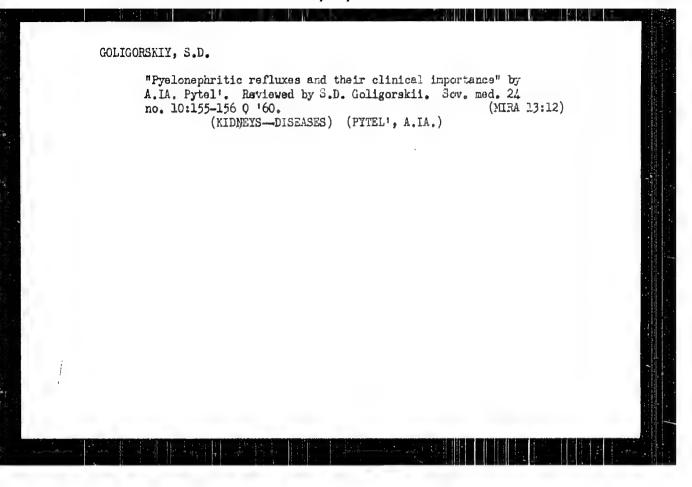
RYZHOV.P.v.; GOLIGORSKIY, S.D.; MIOYMER, A., red.; TEL'PIS, V., tekhn .

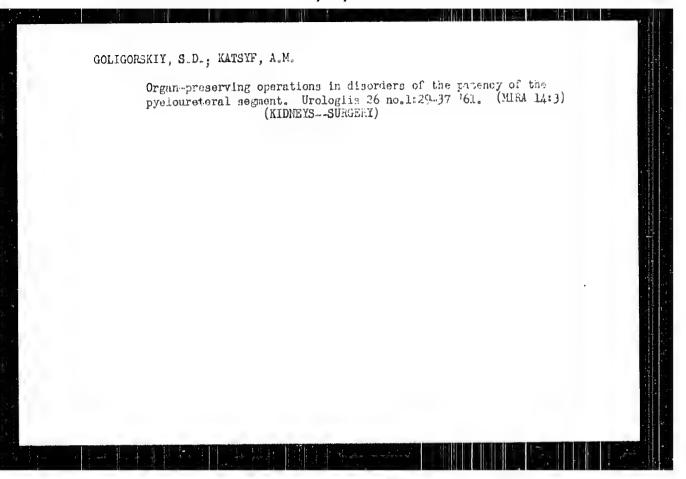
red.

[Mistakes in preoperational diagnosis; problems in surgical tactics] Oshibki predoperationnogo diagnoma; voprosy khirungichaskoi taktiki. Kiehinev, Gos. izd-vo "Kartin Maldovennaske."

1960. 181 p. (MIRA 14:5)

(ANDEMLES - STREERY) (URINING ORBERS - DISTARRS)



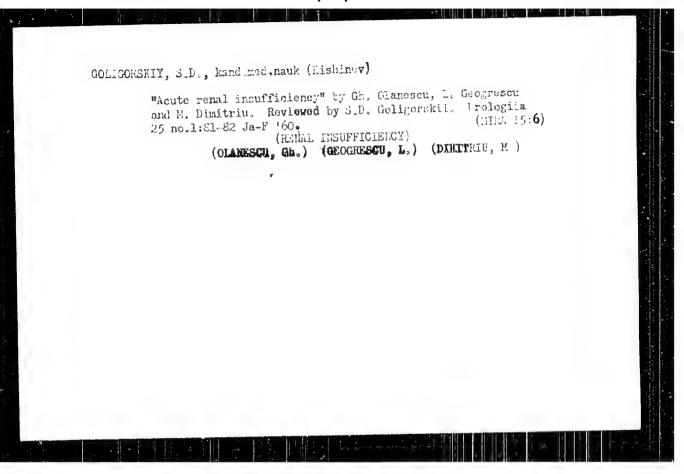


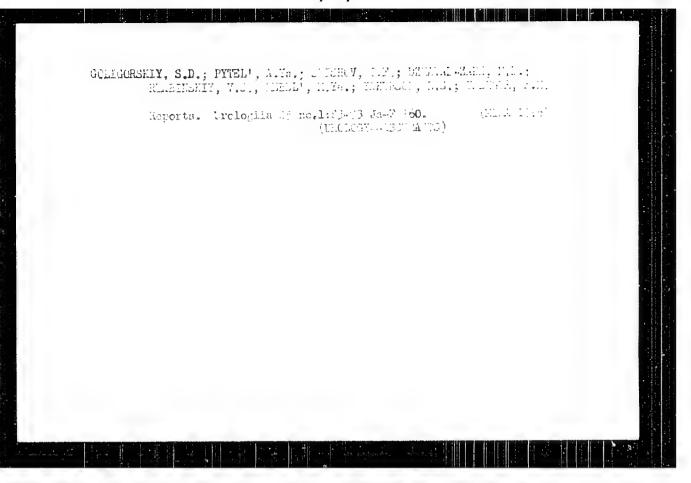
FYTEL', Anton Yakovlevich, prof.; GCLIGCESKIY, Solemon Sqvidovich, kard.med.nauk; VO.KBISOV, V.I., red; ZUIDVA, E.K., tekhn.red.

[Pyclonephritis] Fielonefrit. Moskva, Medgiz, 19cl. 200 p.

(MIRA 15:7)

(KIDNEYS - DISEASES)

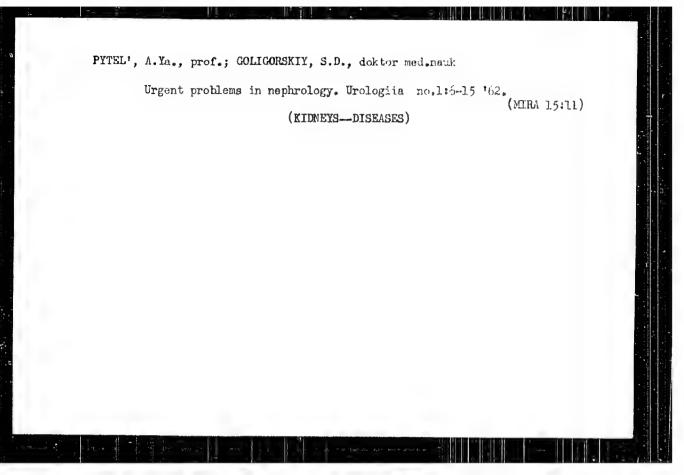


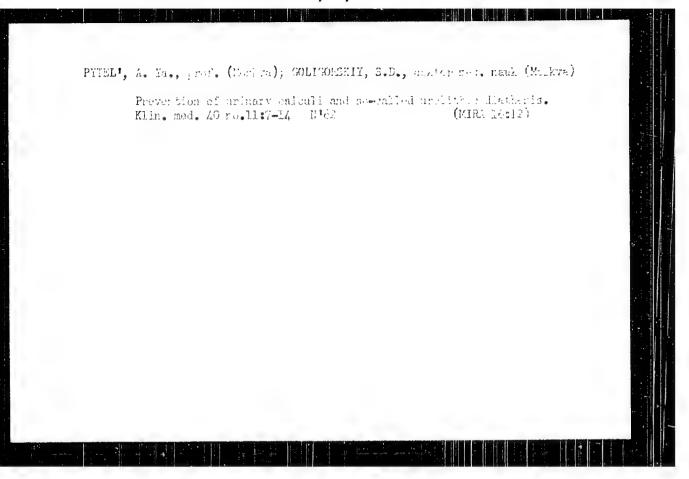


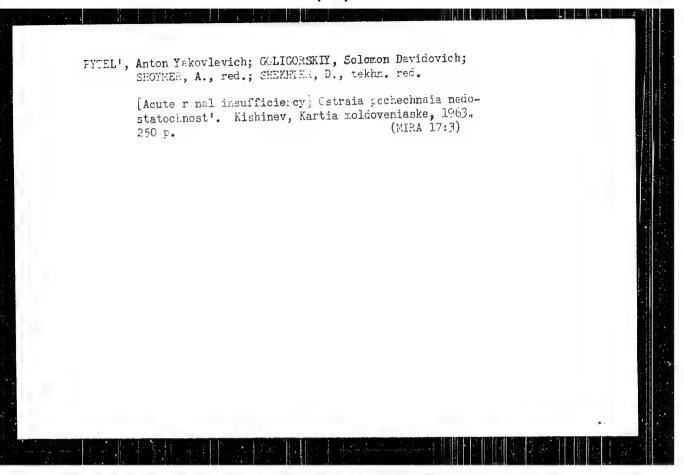
FYTEL', A.Ya., prof.; GOLIGORSKIY, S.D., doktor med. nauk; DZEAVAD-ZADE, M.D., kard. med. nauk; LOFATKIN, M.A., doktor med. nauk; GOLIDIN, G.I., red.; FOGOTKINA, M.V., tekim. red.

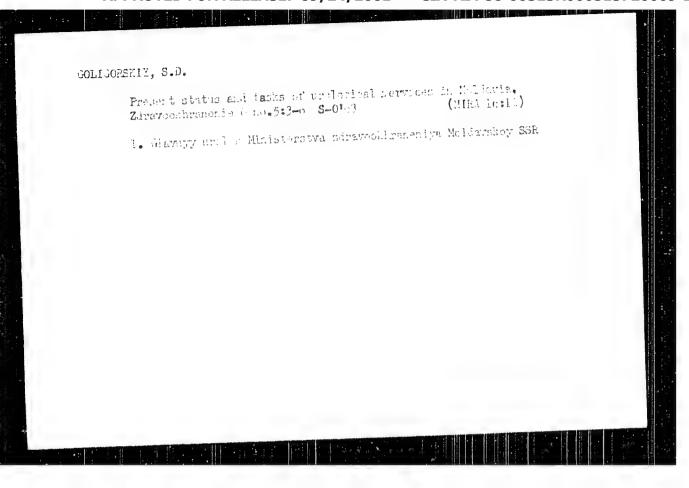
[Artificial Lidney and it. clinical uce]Iskusstvermaia rochka i se Mindeleskoe primorenic. Fed red. i s prodict. A.IA. Pytelia. Mocker, Medgic 1861. 281 p. (MIRA 15:20)

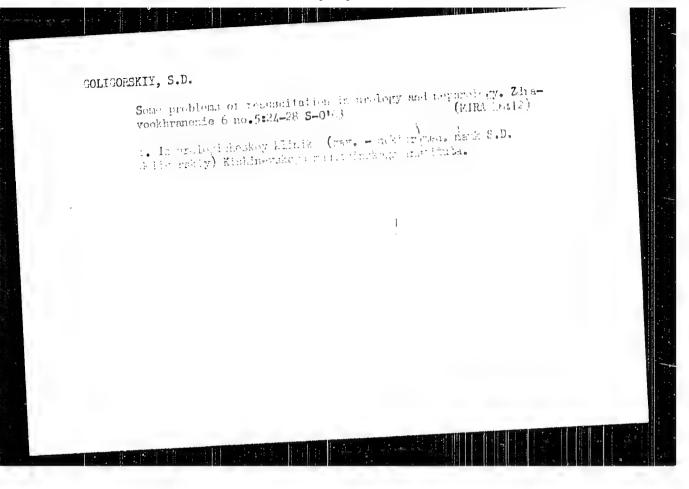
(KIDENS, ARTIVICIAL)





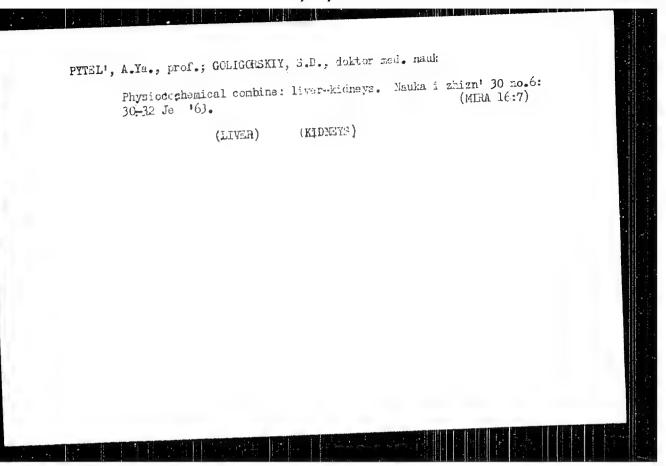


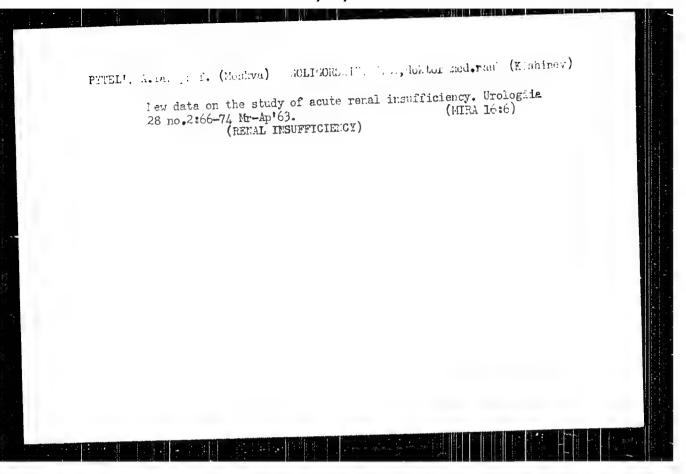


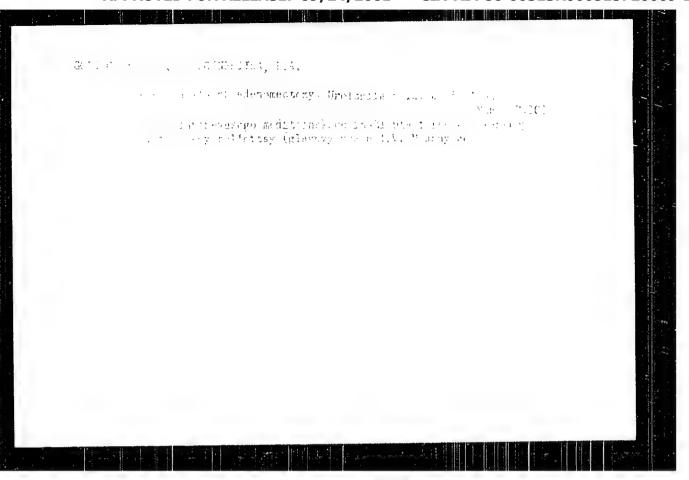


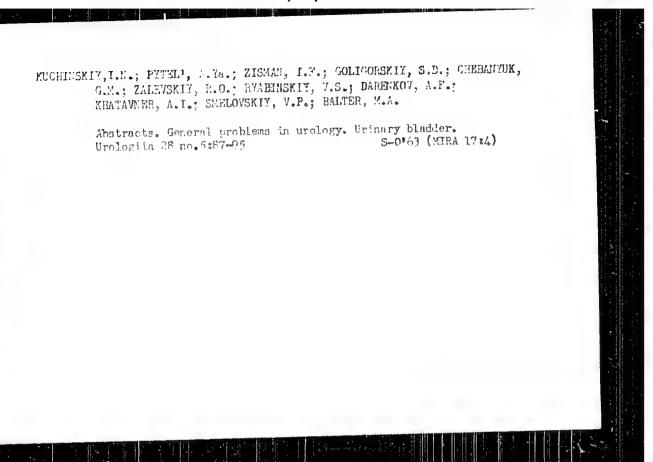
PYTEL', A.Ya.; GOLIGORSKIY, S.D.; VASIL'YEV, V.V.; KUCHE:SKIY, I.E.; KISEHAUM,
L.I.; CHEBANYUK, G.M.; BCGDANOVICH, I.A.; PLISAN, S.O.; SURIS.A.S.

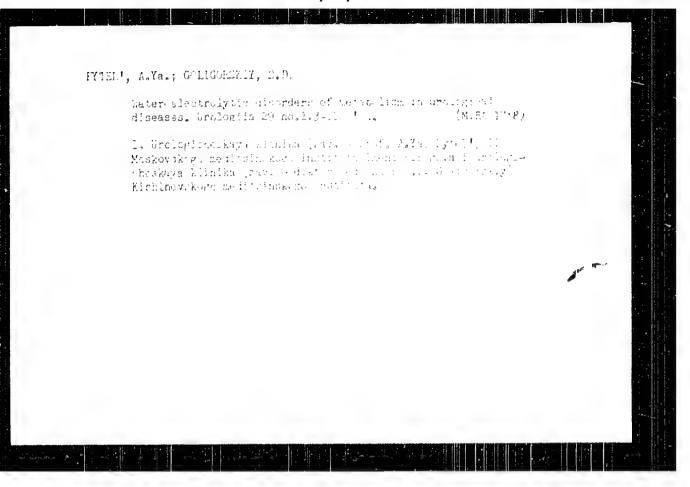
Achievements of contemporary nephrology. Kidneys and ureters.
Urinary bladder. Urologiia 28 no.3:82-92 163 (MIRA 17:2)

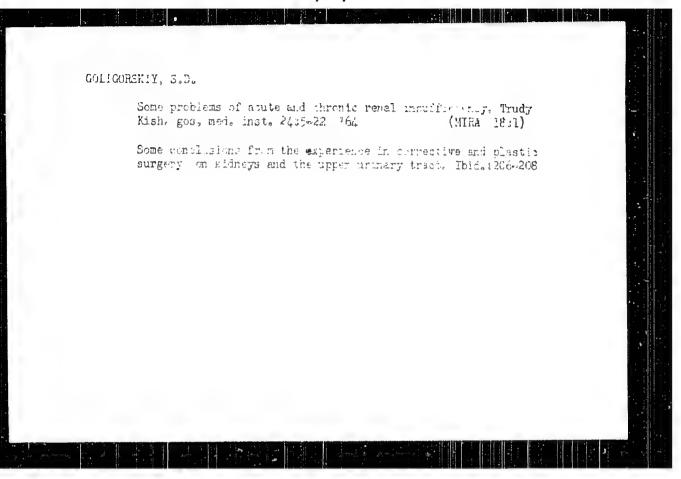


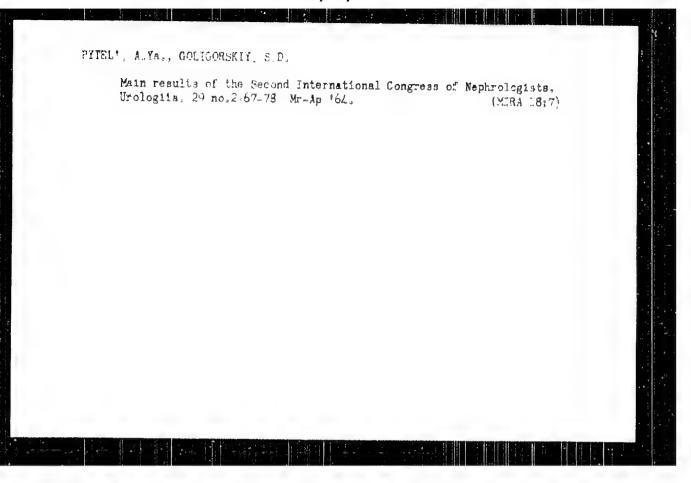








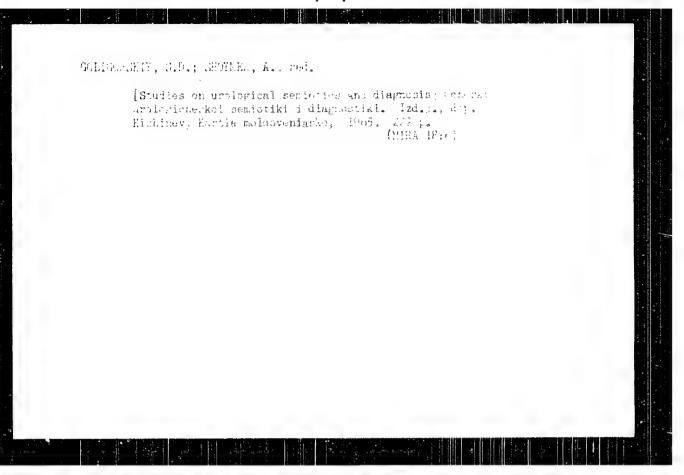


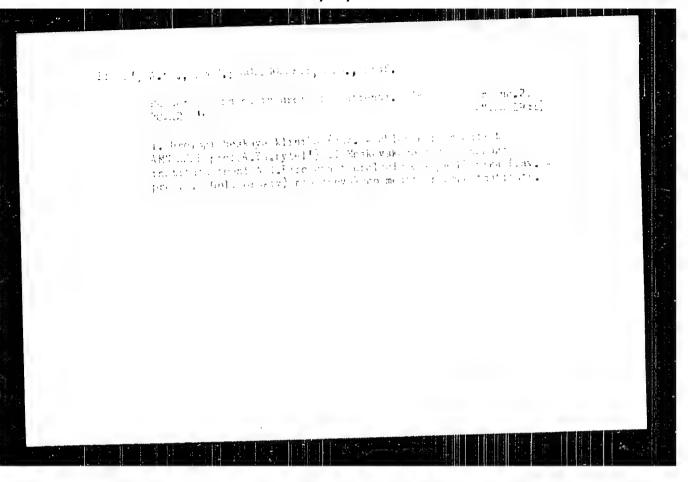


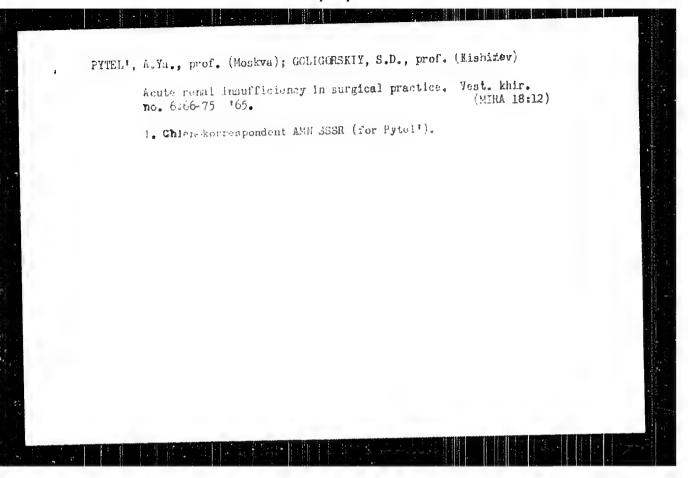
GOLIGORSKIY, J.D., prof. (Kishinev); KATSYF, A.M., kand. med. rauk
(Rishinev)

Review of M.D. Dzhavad-zade's monograph "Folycystosis of the
kidneys; clinical aspects and treatment." Vest. khir., 93 no.11:
140-142 N '64.

(MIRA 18:6)







TYAFKIE, K.F. Prinimali uchastiyo: GCLIK, A.I., inch.; KHARCHELEC, S.I., inzh.; FILIFFOVA, T.C., inch.; coulseko, T.I., red.ind-ve; IVANOVA. A.G., tekhn. red.

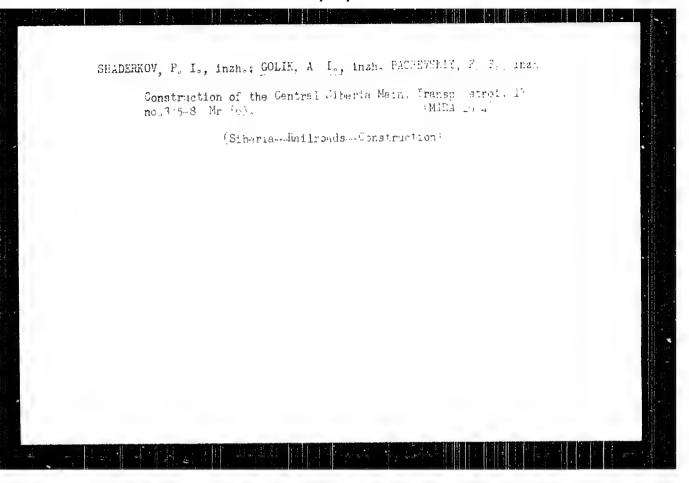
[Interpretation of gravity anomalies counsed by finite geologic structures along the strike] Interpretatising any vite telember anomali, obuslovienrykh koncchnymi po prostity units geologicheskiri obsektami. Nockwa, Gos. naucino-tekhn. inc-vo lit-vy po vool. i okhrane nedr. Ft.1. 1961. 76 p. (MIRA L4:11)

(Gravity prospecting)

TYAPKIN, K.F.; GOLIK, A.I.; KHALCHENKO, S.P.

Interpretation of gravity anomalies under conditions of block structure of the objects being studied. Geofic. abor. no.4:80-100 *63. (MIRA 16:9)

1. Dnepropetrovskiy gornyy institut imeni Artema.

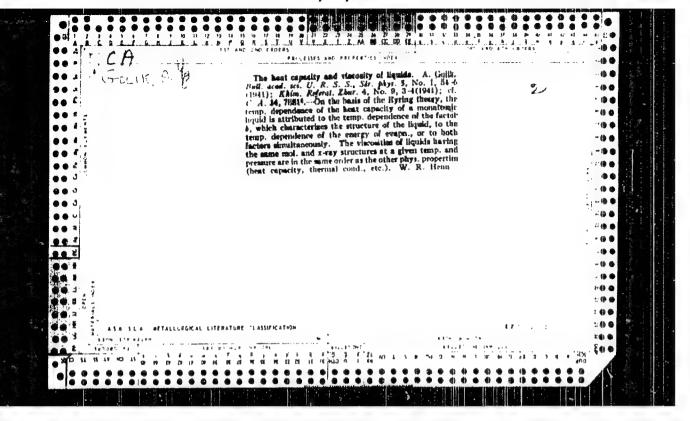


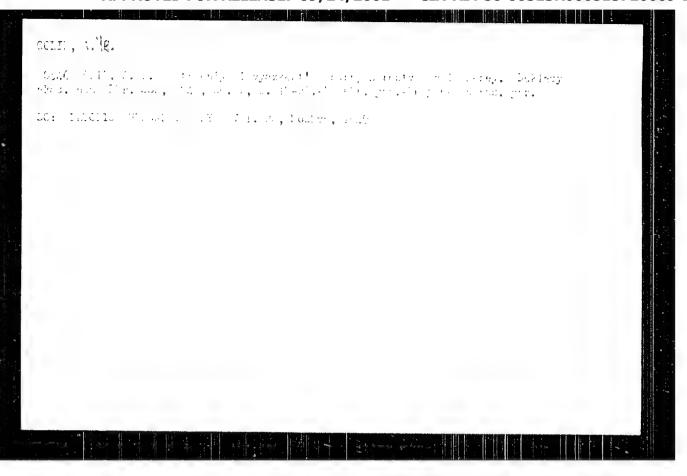
GOLIKOV, A.N., doktor veterin. nauk; SHITOV, S.T., kand. veterin. nauk

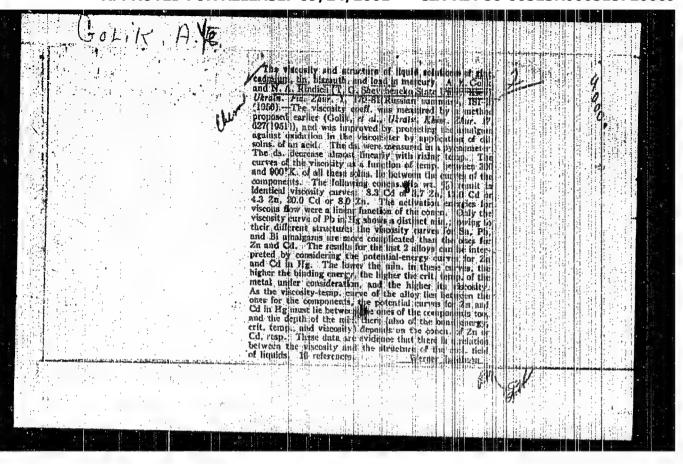
Novocaine block of craniocervical sympathetic ganglion in
treating eye diseases. Veterinaria 40 no.10:42-44 0'63.

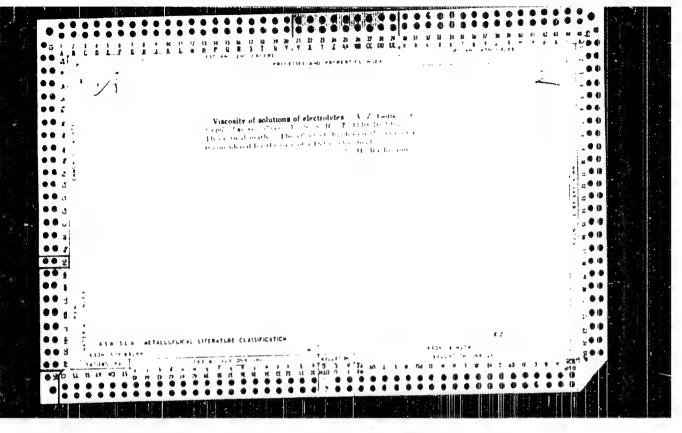
(MIRA 17:5)

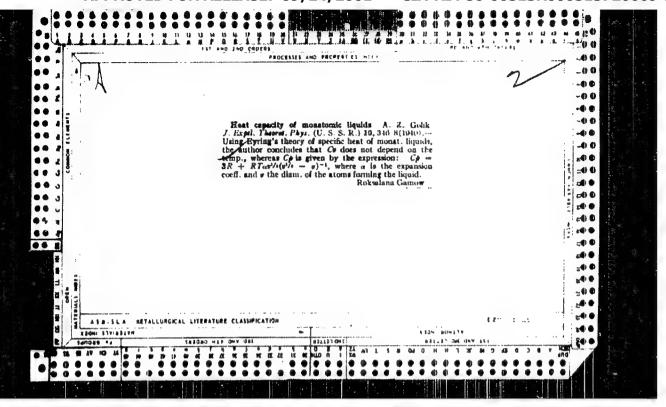
1. Moskovskaya veterinarnaya akademiya.

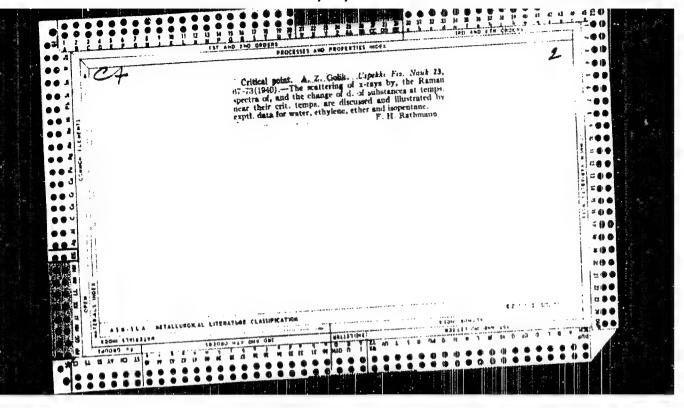


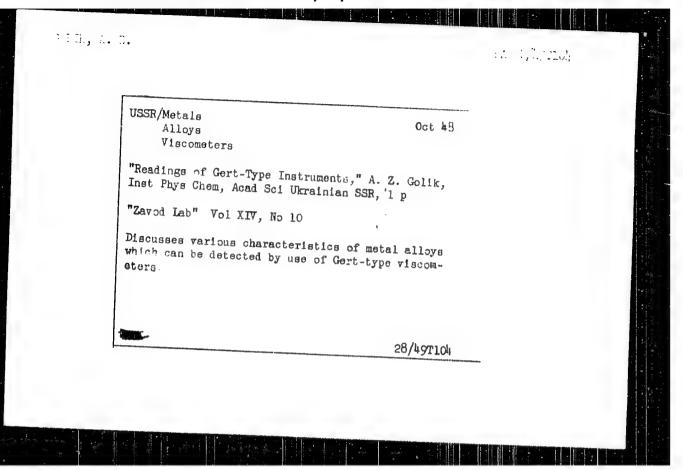












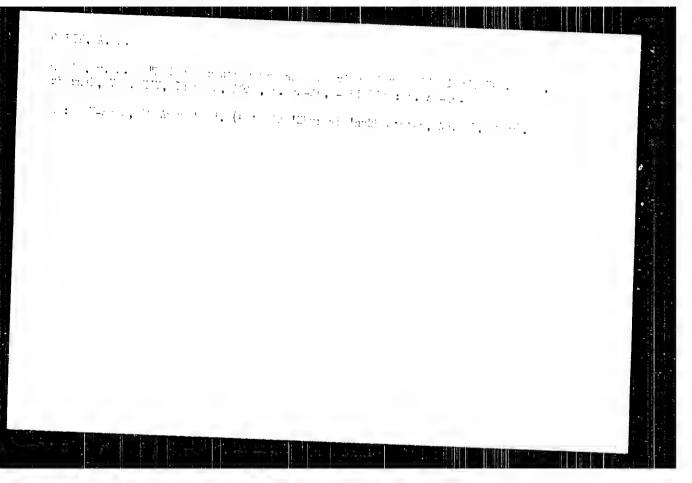
GOLIK, O.Z.; RAVIKOVICH, S.D.

Structure and viscosity of binary solutions and mixtures.
Dop. AN "RSR no.2:17-23 '49. (MLRA 9:9)

1. Institut fizichnoi khimii im. L.V. Fisarzhevs'kogo AN URSR.

Predstaviv diysniy chien AN URSR O.I. Brods'kiy.

(Viscosity) (Solution (Chemistry))



Chemistry - Viscosity Chemistry - Bonds Study of the Coefficient of Viscosity macrphic Substances," A. Z. Golik, S. rikovich, Inst of Physicochem imeni I. Razzhevskiy, Acad Sci, Ubrainian SSR, p urr fiz Khim" Vol XXIII, No 1 image actual results can be achieved by filicients of viscosity of liquids whi same molecular structure and type of veen particles. Conducted experiment lowing: paradichlorobenzene, paradib zene, naphthalene and anthracene. Gi hematical formulae, tables, and graph srimental results. Submitted 27 Mar 1	GOLIK	. A. Z.				1	PA 48/49T30		
7750 Pring ave a 49	48/49130		peradichlorobenzene, paradibrothalene and anthracene. Glyfurbalene and arables, and graphs formulas, tables, and graphs results. Submitted 23 Mar 48	- Viscosity (Contd) Jan	lms actual results can be achieved by fifcients of viscosity of liquids white same molecular structure and type of seem particles. Conducted experiment.	Khim" Vol XXIII, No	m' _ <	- Viscosity Jan - Bonds	1 1 1
	1								

"APPROVED FOR RELEASE: 09/24/2001

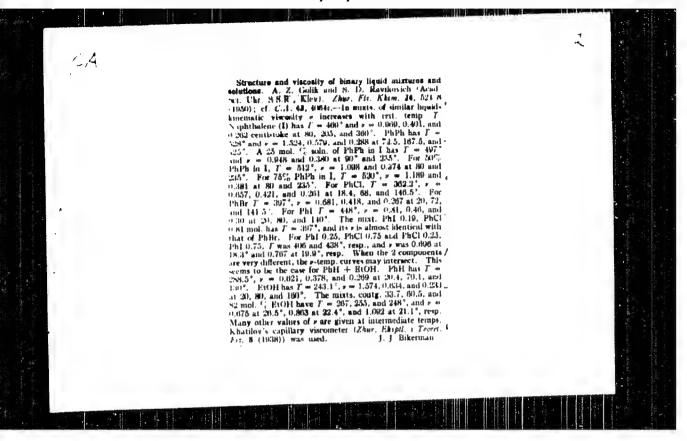
CIA-RDP86-00513R000515720009-2

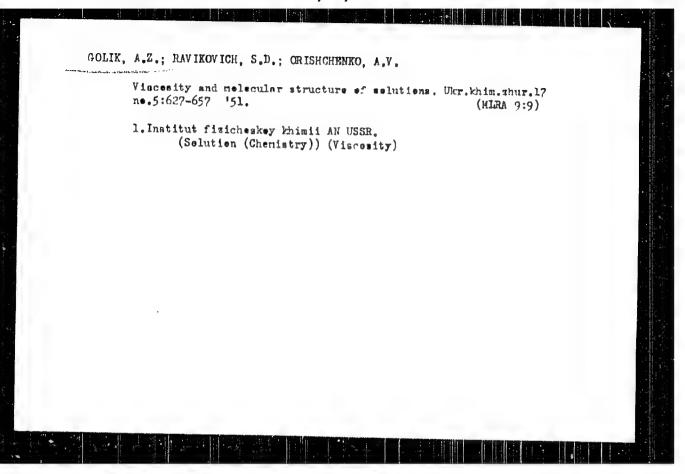
Structure and viscosity of binary solutions and mixtures A. 7. Golds and S. D. Ravskovich (Inst. Phys. Chem. A. 7. Golds and S. D. Ravskovich (Inst. Phys. Chem. A. 18. 1930, 101. 7(In Thannan), cf. C. 4. 44, 87211d. A. 6. 1930, 101. 7(In Thannan), cf. C. 4. 44, 87211d. A. 6. 1930, 101. 7(In Thannan), cf. C. 4. 44, 87211d. A. 6. 1931, 4. 1931,

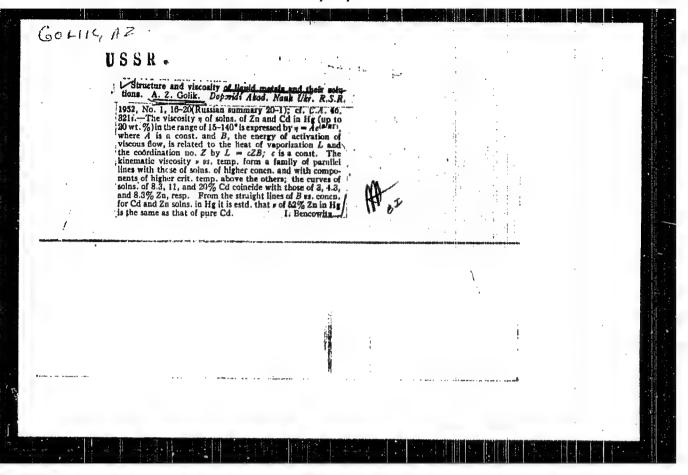
01

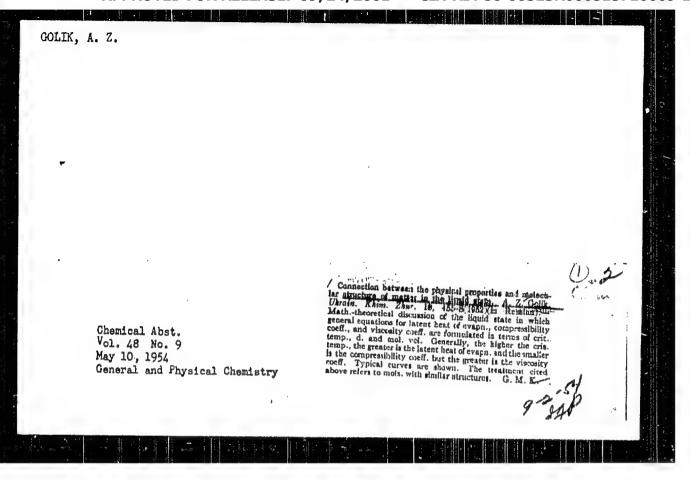
Callia, $t_e = 274^\circ$, ν (14-0) 0.00650, (75.0) 0.00397, (145.0) 0.00249, pure Callia, $t_e = 230^\circ$, ν (32.5) 0.00785, (75.0) 0.00321, (160.0) 0.00322. The compan Callia + 49% Callia has the same t_e as pure Cillia: correspondingly, ν is the same for the Callia + Callia muxt, and for pure Cillia cover the whole temp: range. For all compans, $\log \nu$ is a linear function of (1/T), and the slope (activation energy) is the same for all compans, and for the pure components as well. Selected exptl. data for mixts, of MeGH and BuOH are: pure MeGH, $t_e = 222^\circ$, ν (20) 0.00776, (80) 0.00387, (190) 0.00381, (MeGH + 3376, BuOH, $t_e = 236$, ν (18.5) 0.00874, (71.4) 0.03528, (110.6) 0.00354; MeGH + 55% [BuOH, $t_e = 236$, ν (24.0) 0.00432, MeGH + 83% BuOH, $t_e = 230$, ν (31.6) 0.00373, (118.0) 0.00432; MeGH + 83% BuOH, $t_e = 237$, ν (21.0) 0.02738, (60.0) 0.0184, (113.4) 0.00550; BuOH, $t_e = 237$, ν (21.0) 0.027818, (60.0) 0.0184, (113.4) 0.00550; BuOH, $t_e = 237$, ν (21.0) 0.027818, (60.0) 0.0184, (113.4) 0.00550;

0.0048 | Pane R(O)I | I_s = 243, s(20) 0.01364, (81), 0.00544, (160) 0.00234, | EtOII | s | Iabb | BaOH, | I_s = 255, | x | (21), 0.02107, (62.5) 0.01046, (110.0) 0.00301, | EtOII | + 20° BOOH, | I_s = 309, | x | Iabb | 0.00303, (110.0) 0.00303, (110.0) 0.00303, (100.0) 0.00303, (100.0) 0.00303, (100.0) 0.00303, (100.0) 0.00303, (66.2) 0.01437, (130.0) 0.00303. | The parallelium between s and | I_s repeats itself in these systems. With the sid of plots, it is found that pure PvOH has the same t and the name s (at any temp. as a mixt of the compn. 17% McOH + BuOH or 32% R(O)H + BuOH. | Pare II(O)H has the same t, and s as a mixt | 45% McOH + BuOH. | In bath McOH = BuOH and BrOH + BuOH, | log s is a linear function of (1/T) but the activation energies vary with the compn. In the system EOH + C4H₀, representative of a mixt. of components of unlike type, selected data are: E1OH + 18% C4H₀, t = 248, s | (21.1) 0.01030, (78.9) 0.00470, (131.7) 0.00286; E1OH + 39.5% C4H₀, t = 255, s | (24.4) 0.0883, (81.0) 0.00504, (132.1) 0.00273; BrOH + 05% C4H₀, t = 270, s | (15.8) 0.00768, (74.0) 0.0039, (14.0) 0.0039, (14.0) 0.00373, (130.0) 0.0039. The curves of s for the mixts. lie between those of the pure components, faming out from a common high-temp. point of intersection. | N. Thon









GCLIE, A. Z.

USSR/Physics - Jolid State Physics

How 53

"Conference on the Liquid State of Matter, Held 22-30 May 1953 at Fiew by the Academy of Sciences, Ukrainian SR, and Fiev State University in T. G. Shevchenko, S. D. Ravikovich, G. J. Foslichina and J. F. Skryshevskiy

Usp Fiz Nauk, Vol 51, No 3, pp 393-05

Summarize reports by the following: V. I. Danilov, on scattering of x-rsys in liquids; A. F. Skryshevskiy, on x-ray study of scins of ECH, NaOH, LiOB, LiOB, and H₂SO₄; Ta. A. Forsy-Noshits, on integral analysis of intensity curves; F. V. Deragin, Te. G. Shvidkevskiy, C. Ta. Jamoylov et al. on x-ray studies of liquid structure; A. Z. Gelik, on characteristics of rolecular structure of liquids; I. V. Eadchenko, on modeling of liquids; F. K. Shestakovich, on new liquid rodels and influence of central and dipole forces on close ordering; A. Z. Colik and his associates S. D. Bavirovich, A. V. Orishchenko, V. T. Solombo, and E. A. Fyndich, on viscosity and density of matter in the liquid state; V. I. Chulanovskiy and D. J. Karenetskayn, on the influence of molecules' size and the intermolecular intensity on viscosity coeff; A. F. Frynza, on thermo-diffusion in binary systems; S. S. Frazovskiy, resence of grouping of identical atoms; A. R. Fegel', on relation between electrical properties and structure of liquids; F. F. Yuka, on light-dispersion method for studying liquids' structure.

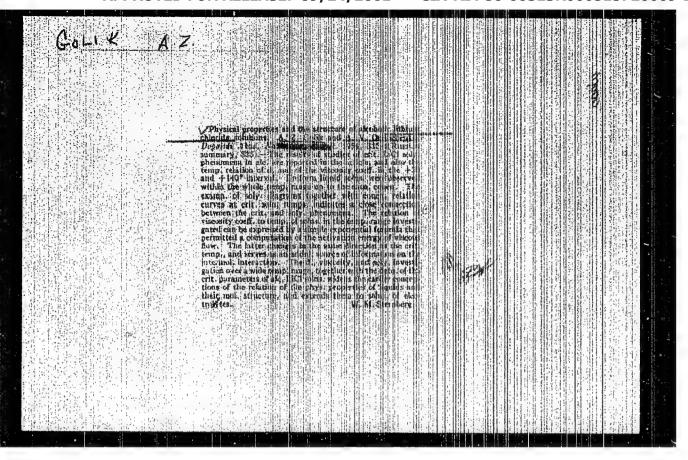
GOLIK, A.Z., doktor fiziko-matematicheskikh nauk, otvetstvennyy redsktor;
RAVIKOVICH, S.D., kandidat fiziko-matematicheskikh nauk, redsktor;
ROSHGHINA, G.P., kandidat fiziko-matematicheskikh nauk, redsktor;
SKRYSHSVSKIY, A.F., kandidat fiziko-matematicheskikh nauk, redsktor.

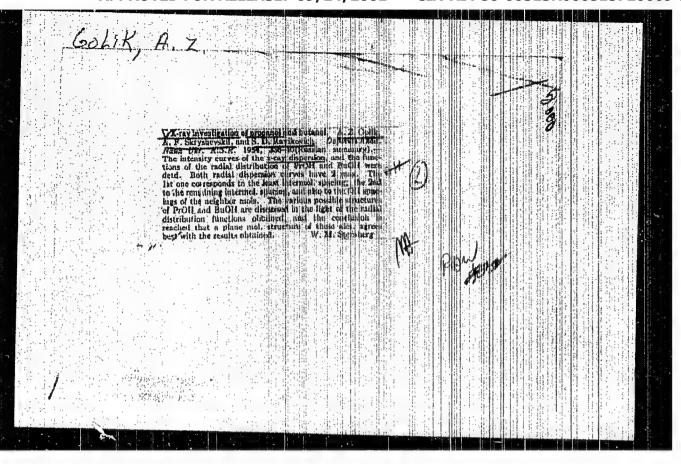
[Structure and physical properties of matter in liquid state;
papers of a conference held in Kiev, May 28-30, 1953] Stroenie i
fizicheskie svoistva veshchestva v zhidkom sostoianii; materialy
soveshchaniia, jontoiavshcycsia v Kieve 23-30 main 1953 g. [Kiev]
Izd-vo Kievskogo gos. univ. im. T.G.Shevchenko, 1954, 203 p.

(MIRA 9:3)

1. Akademiya nauk URSR, Kiyev

(Liquids)





GOLIK, O.Z.; ORISHCHENKO, A.V.; ARTEMCHENKO, O.G.

"Negative" viscosity effect of monaqueous solutions of potassium iedide.
Dep.AN URSR mo.6:453-456 '54. (MERA 9:9)

1. Institut finchei khimii imeni L.V.Pisarzhevs'koge AN URSR. Predstaviv diysniy chlem AN URSR O.I.Breds'kiy.

(Petassium iedide)

Gents, As

USSE/ Hysical Charlistry - Liquits and Amerphous Bodies. Gases. 8-6

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7377

Author : Golik, A.Z. Skrishyevskiy, A.F., and Ravikovich, S.I.

Inst : Academy of Sciences Userinter for

Title : Radio, raphic Investigation of Methyl Alcohol

Orig Pub : Dopovill All URSE, 1954, No 6, 457-459 (published in

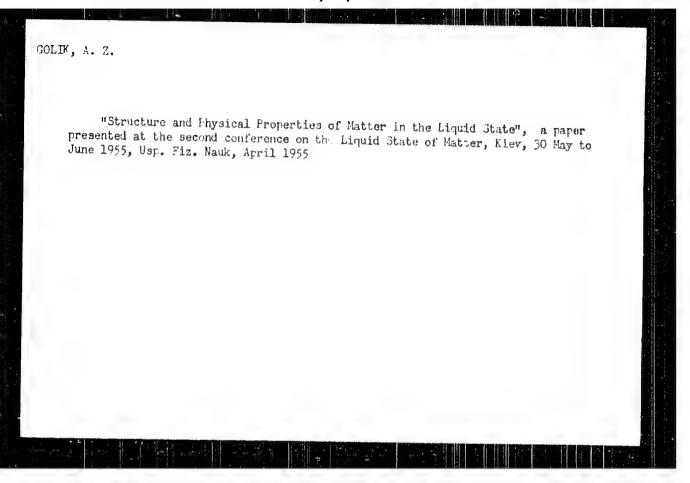
Ukrainia: with a Russian sunmary)

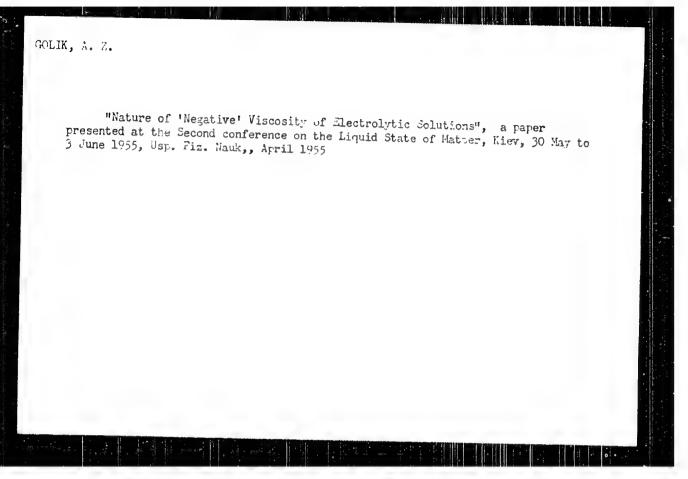
Abstract : The X-ray intensity curve and rad'al distribution func-

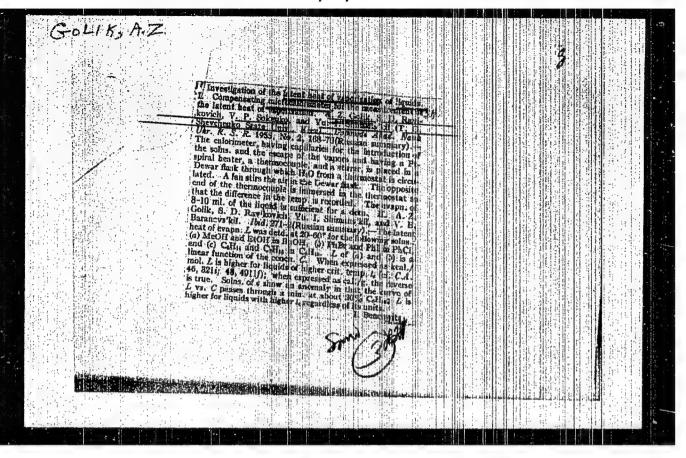
tion for methyl alcohol have been calculated. The radial distribution curve shows two peaks. The first peak corresponds to the intranclecular distance and the second is determined by the sum of the distances to the OH-groups neighbouring melecules. The first peak in the radial distribution curve was isolated from the large-fistance side; this does not agree with the radial distribution curve which previously determined (G.G. Harwey, J. Chem. Phys.,

1938, 6, 3, 111).

Card 1/1 - 58 -







31. K. A. ...

USBR Active act Milecular Physics - Statistical Physics, Thermodynamics, D-3

Aust w. Jona : Referat Zhur - Fizika, No 12, 1956, 34364

Author: Gills, J. J., Ravikovich, S. D., Shimana'kiy, Yu. I., Baranovs'kiy, V. Ye.

Institutions: Institute of Physical Chemistry, Kiev State University

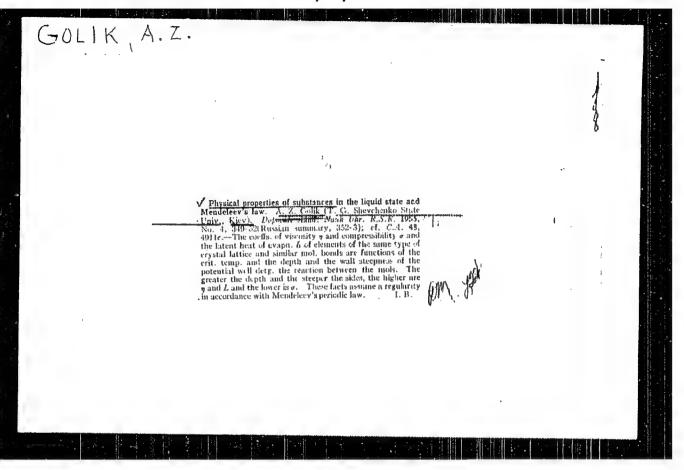
Title: The digation of Liquids. II. Envestigation of Physical Solutions

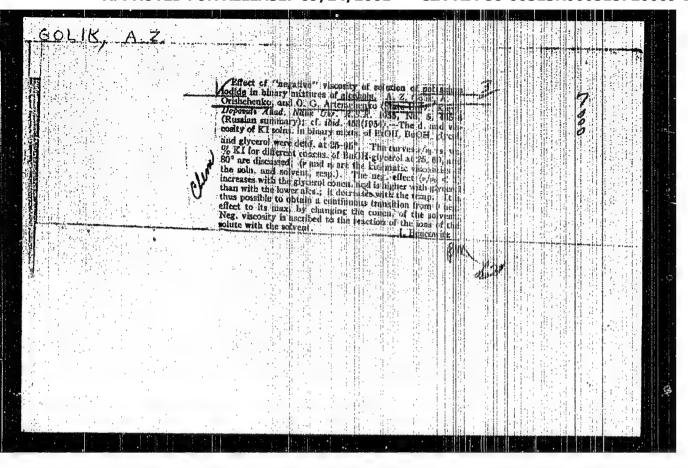
Original Periodical: D.p.ovidi AN URCR, 1955, No 3, 271-273; Ukrairian; Russian resume

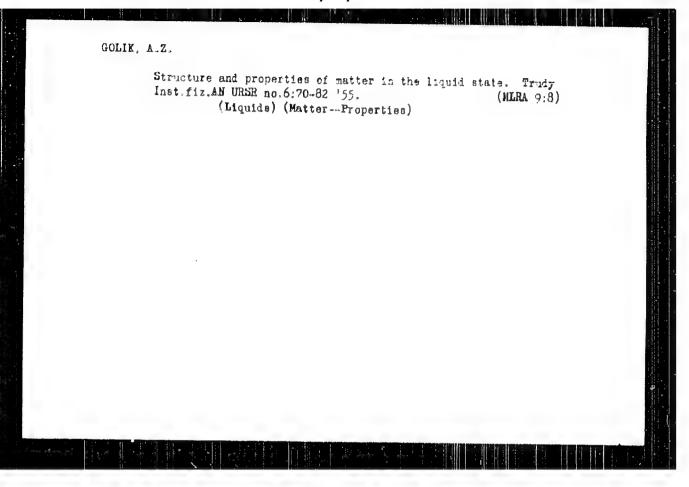
Abstract: It is shown that the temperature-dependence curves of latent neats of evaporation of solutions of methyl and ethyl alcohols in buryl alcohol, and of its consists and chlorobenises in prophenises, lie between the corresponding curves of the components and range in an order determined by the critical temperatures of the liquids. The concentration dependence of the heat of evaporation of solutions of which I and bailed derivatives of tenene is linear, and a pronounced minimum is disclosed for the $C_0H_{1/6}$ and $C_0H_{1/6}$ at $C_0H_{1/6}$ as obtains.

1 of 1

- 1 -







USSR/Physical Chemistry - Liquids and Amorphous Substances. B-6 Gases. : Referat Zhur - Khimiya, No 6, 25 March 1957, 18390 Abs Jour : Golik, A.Z. : RyhKhim, 1956, 18694 Author Inst : About Certain Froblems Referring to the Theory of Liquid Title State. : Nauk. zap. Kiiva'k un-t, 1955, 13, No 7, 145-152 Orig Pub : Connection between the structure of a liquid and its pro-Abstract perties is qualitatively analyzed. The attention is called to the fact that substances having the same lattice in solid state and the same intermolecular interaction are characterized by a family of similar curves upon the diagrams property-temperature. This is tied up with the fact that the energy of molecules of a liquid, in first approximation, is determined by the close order: the reciprocal action between different molecules and their ~ 130 -Card 1/2

"APPROVED FOR RELEASE: 09/24/2001 CIA-I

CIA-RDP86-00513R000515720009-2

USSR/Physical Chemistry - Liquids and Amorphous Boiles. Games, B-6 Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60900 Author: Golik. A. Z. Institution: Nent Title: Mclecular Structure and Viscosity of Liquid Metals and Alioys Original Periodical: Naux. 2ap. K.ivs.k. un-t 1955, 14. No 8, 159-169 Abstract: As a result of considerations of the question concerning the relationship between molecular structure of liquid metals and their physical properties the author reaches the conclusion that the coefficient of piscosity of liquid metals and metal alloys depends on the molecular structure of the given liquid. For the study of this correlation it is appropriate to classify liquid metals as well as other liquids on the basis of postical molecular structure. With a given group of liquids of riestical molecular structure the temperature dependence curve on the apartably coefficient is located togues with occumator value it the expension temperature Card 1/2

USSR/Physical Chemistry - Liquids and Amorphous Bodies. Gases B-6

Abstract: Of a given substance. The temperature dependance curve of the viscosity of a molecular missible solution the components of which have the same molecular structure as located between the curves of the components and its location is higher with increasing boiling temperature (critical temperature) of the solution. If the critical same the viscosity coefficients of such substances will be equal at any temperature. Thus coincidence if temperature dependence curves of viscosity coefficient constitutes as index of identical molecular structure of the liquids.

GOLIK, A.Z.

USER/Chemistry - Physical chemistry

Card 1/2

Pub. 116 - 7/25

Authors

Golik, A. Z., and Ravikovich, S. D.

Title

Viscosity and structure of normal paraffins and their solutions in

liquid state

Periodical

Ukr. khim. zhur, 21/1, 39-47, 1955

Abstract

The viscosity coefficient of pure paraffins and their binery and ternary solutions was investigated in connection with the molecular structure. It was found that paraffin molecules do not posses dipole moments, consequently, the reaction between them is determined by weak residual dispersion forces. Normal paraffins were observed to form a group characterized by an analogous function of atom orientation and identical type of intermolecular bond. The activation energy of the viscous flow of paraffin solutions was established to be a square

Institution :

Acad. of Sc. Ukr-SSR, The L.Y. Pisarzhevskiy Enst. of Phys. Chem.

Submitted

January 29, 1954

Periodical: Ukr. khim. zhur. 21/1, 39-47, 1955

Card 2/2: Pub. 116 - 7/25

Abstract: function of the concentration. Solutions and pure paraffins have shown an identical vincosity coefficient at all temperature intervals of the liquid phase. Six references: 5 USER and 1 USA (1939-1949).

Tables; graphs; drawings.

GAIR, A.Z.

USSR/ Chemistry - Physical chemistry

Card 1/1

Pub. 116 - 5/24

Authors

Golik, A. Z.; Ravikovich, S. D.; and Orishchenko, A. V.

Title

* Viscosity and molecular structure of normal alcohols and their solutions

Periodical : Ukr. khim. zhur. 21/2, 167-175, 1955

Abstract

Data are presented on the density, viscosity and critical temperatures of normal alcohols and their solutions in connection with the molecular structure. It is shown that the activation energy of the viscous flow and the pre-exponential multiple factor are the functions of concentration; the activation energy increases and the pre-exponential multiple factor decreases with the increase in concentration of the component which possesses a higher critical temperature. Data regarding the critical temperatures and viscosity of binary and ternary alcohol solutions are included. Eight USSR references (1937-1952). Tables; graphs; drawing.

Institution: Acad. of Sc., Ukr. SSR, The L. V. Pisarzhevskiy inst. of Phys. Chem.

Submitted January 29, 1954

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515720009-2

Golik, AZ.

USSR/ Chemistry - Physical chemistry

Card 1/1

Pub. 116 - 7/30

Authors

Title

* Golik, A. Z.; Orishchenko, A. V.; Ravikovich, S. D.; Solonko, V. P.; Roshchina, G. P.; and Shimanskiy, Yu. I.

Viscosity, density and critical temperatures of alcohol solutions in

monocarboxylic acids

Pariodical : Ukr. khim. zhur. 21/3, 318-326, June 1955

Abstract

The viscosity, density and critical temperatures of alcohol solutions were investigated in monocarboxylic acids in which the chemical esterification reaction usually takes place. The general laws governing the concentration and thermal dependence of the characteristics mentioned and the laws governing the activation energy of the viscous flow and specific volumes were established. It is shown that in the case of solutions, the components of which react intensively between themselves, and that the concentration and thermal depandences are also subject to other more complicated laws. Mine Russian and USSR references (1877-1955). Graphs.

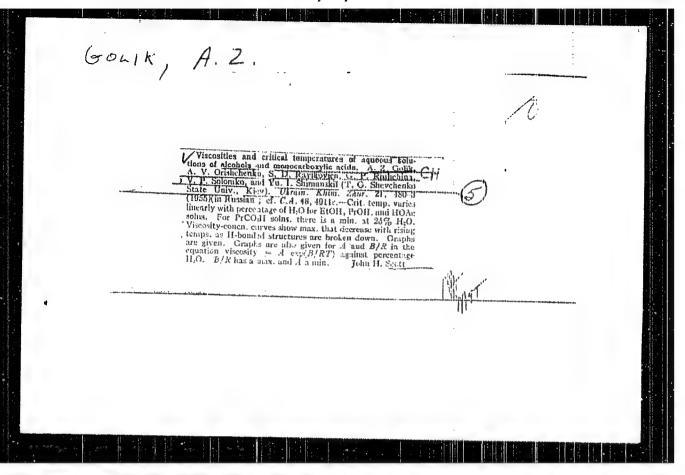
Institution:

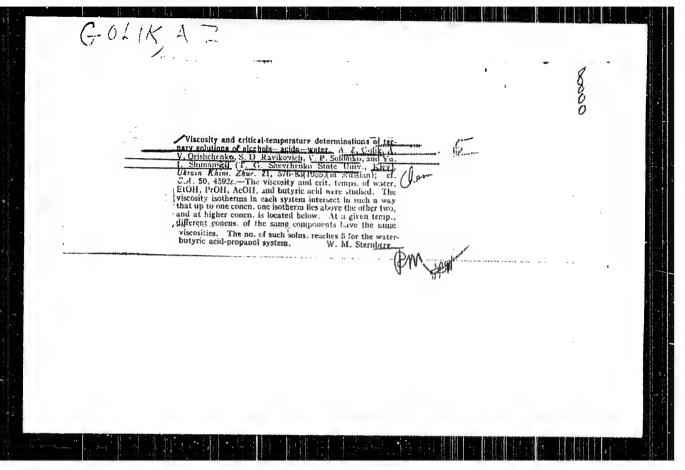
Acad. of Sc., Ukr. SSR., The L. V. Pisarzhavskiy Inst. of Phys. Chen. ard

the T. G. Shevchenko State Univ., Kiev

Submitted

: December 16, 1954





"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515720009-2

S. /Physical Chemistry, Sclutions, Theory of Acids and Bases. B-11

Abs Jour : Per Zhur - Khimiya, No 7, 1957, 22478.

: A. A. Polik, N. A. Ryndich. Author

: Viscosity and structure of liquid solutions of Zinc, cadmium, Inst Title

tin, bismuth and lead in mercury.

Orig Pub : Ukr fiz. Zh 1956, I, No 2, 170-182 (ukr., reg. russ).

Abstract : Viscosity (γ_{γ}) and density (d) of binary liquid solutions of Zinc (I), Cadmium (II), Tin (III), Bismuth (IV) and Lead (V)

in mercury (VI) are studied. Solutions I and II in VI, the components of which have a similar molecular structure belong to the number of molecular-mixing solutions. The curves of temperature dependence of $\boldsymbol{\eta}$ of the above mentioned solutions lie between curves of the components and grow higher with the increase in concentration of I or II, i.e. with the rise of the critical temperature of the solution. For series of solutions I and II in III, the curve of temperature dependence of n coincided with the whole studied temperature range. Solutions with identical d were also obtained. But T of these solutions is as different as is d in isoviscous solutions.

Card 1/2

-158-

cons, heary or delds are -- M. Lolling Me 7, 1957 Activations enam eentrati.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515720009-2"

CIA-RDP86-00513R000515720009-2 "APPROVED FOR RELEASE: 09/24/2001

21-5-8/26

AUTHORS: Roshchina, G.F. (Roshchyna, H.P.), Golik, A.Z. (Holyk, O.Z.)

TITLE: Molecular Scattering of Light in Isoviscous Liquids (Mole-

kulyarnoye rasseyaniye sveta v izovyazkostnykh zhidkostyakh)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Br 5, pp. 457-

460 (USSR)

ABSTRACT: The authors investigated molecular scattering of light in isoviscous liquid in order to ascertain the connection between the

characteristics of scattered light and the structure of the solutions. Isoviscous liquids were first discovered by one of the authors, A.Z. Golik (Ref.1). These liquids have equal critical temperatures and similar curves for the temperature dependence of viscosity. The investigation of the structure of these liquids with the aid of X-ray scattering shows that they posses the same structure. The liquids studied in this research were isoviscous solutions of n-paraffin and of nalcohols. The following results were obtained with these liquids. In the case of n-paraffin solutions, isoviscous with n-heptane, there is a coincidence of the temperature-dependence curves of the intensity of the isotropic part of scatter-

ed light. For solutions, isoviscous with ethyl alcohol and propyl alcohol, such an agreement of the intensity curves is

Card 1/2

Molecular Scattering of Light in Isoviscous Liquids

21-5-8/26

not always observed. The intensities of the anisotropic parts of scattered light do not coincide for isoviscous liquids (except for heptane and an isoviscous solution of 50.6% of octane in hexane). On the basis of these investigations the coefficients were computed for the isothermal compressibility of isoviscous liquids. Isoviscous liquids were shown to have the same coefficients of isothermal compressibility. The article contains 2 figures, 2 tables and 4 Slavic references.

ASSOCIATION:

Kiyev State University (Kyivs'kyy darshivnyy universitat)

PRESENTED:

By V.Ye. Lashkarev (Lashkar'ov), Member of the AN Ukrainian SSR

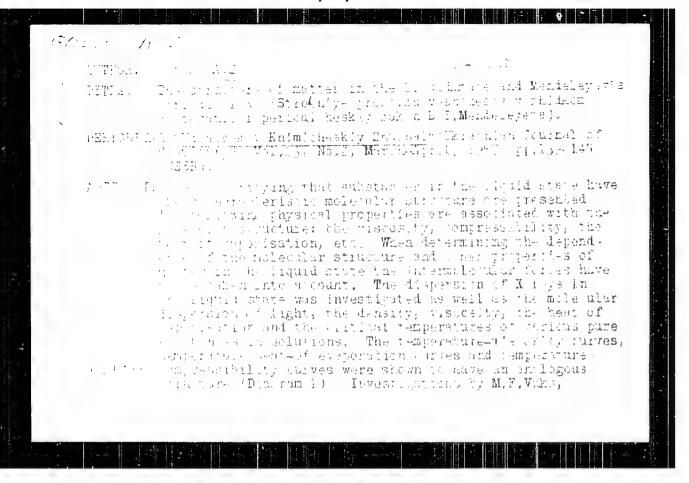
SUBMITTED:

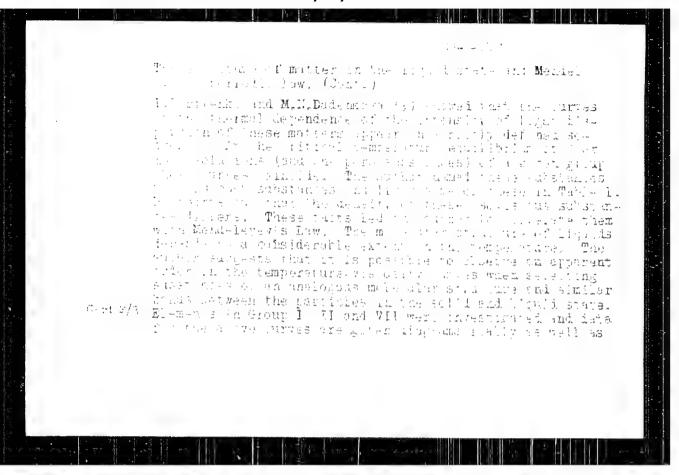
21 December 1956

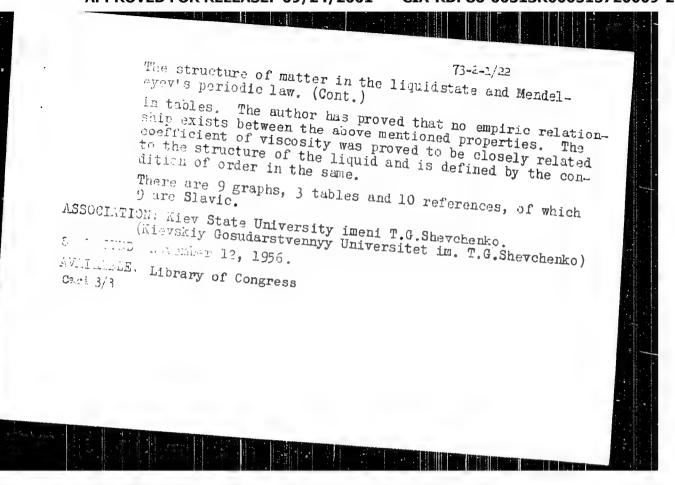
AVAILABLE:

Library of Congress

Card 2/2







13-1-35/16

GCLIK, AZ

At mord: Golik, A. Z., Karlikov, D. N.

PIPLE: On the Relation Between the Coefficient of Viscosity and the

Molecular Structure of Liquids (O svyani keeffitsiyent. vyankosti so strukturey veslichestvi v nhidlem sestiy stil

PERIODICAL: Doklady Akademii Nauk SSOR, 1957, Vol. 114, Rev. 116 to 200

(USSR)

AESTRACT: The relationship between the coefficient of viscosity and

other physical properties, and particularly the structure of the substance in its liquid state are of great interest both for the development of the theory of the liquid state and of the viscosity, but also for the practical aspects of physical-chemical analysis. However, this set of interrelationsships has not yet been clarified. On the one hand, the knowledge of the structure of liquids required for this perpose is lacking, and on the other hand the physical properties of the structure of liquids have not been investigated in sufficient

cient detail. The authors of the paper under review made the Card 1/3 attempt to overcome the difficulties, which are encountered

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86

CIA-RDP86-00513R000515720009-2

On the Relation Between the Coefficient of Viscosity and to Helenler Utructure of Liquids

in clarifying the relationships between viscosity are stour ture etc., by an economical selection of the objects of their investigation. For this purpose, also other projects a were studied that are in some relationship with the structure. The objects were selected from the point of view of the cimilarity of their molecular structures. The following properties were studied within a wide temperature range: density; heat of vaporization, molecular dispersion of light, and oritical temperature. It was demonstrated that the curves of temper. ture dependence of the viscosity and of the heat of may bemation are placed the hither, and the curves of compression are placed the lower, the higher the oritical temperature of the substance under consideration. It was also proved that the interrelationship between viscosity and other properties connected with the structure, on the one hand, and the critical temperature, on the other hand, is a consequence of the periodic law of Mendeleyev. The analysis of the curves ci atomic distribution of the isoviscens solutions, no dell as the analysis of the curves of intensity, show complete correidence. Therefore it follows that liquids with identical coefficients of viscosity (isoviscous liquids) also have

Card 2/3

On the Relation Between the Coefficient of Viscosity and the Mclevalar Structure of Liquids identical orders of preximity and identical structures. There

are 4 figures, 1 table, and 9 references, 8 of which are

ASSOCIATION: State University imeni T. G. Shevehenko, Kligev

(Kiyevakiy gosudaratvenny universitet in. 1. G. Shevoi enko Krivoy Rog Pedagogical Institute (Krivorozhskiy pedinstitut)

PRESENTED: November 12, 1956, by G. V. Kurdyumov, Member of the Agadeny

SUBMITTED: Movember 6, 1956

: ELEALIAVA Library of Congress

Card 3/3

307/21-59-2-31/28 Solik, A.J., Ravikovich, S.E., Baranovskip, V.Ye. AUTHORS: TITLE: The Investigation of Evaporation Heats of Solutions of Joma Deuterium Compounds (Issledovaniye teplot ispareniya rastvicev nekotorykh deyterosoyedineniy) Dopovidi Akademii nauk Ukrains koi RBR, 1958, Nr 2, PERIUDICAL: pp 210-212 (UJSR) ABSTRACT: The authors investigated the evaporation heat of heavy water solutions in ordinary water and of deuterium-butancl in butanol. It is shown that in the first case the concentration dependence of the evaporation heat has a clear-out maximum at 40°C, and in the second case it degenerates into an Jshaped curve. The regularities observed indicate the complicated nature of intermolecular interaction. Hence the authors draw the conclusion that the conception of an "ideal" solution as a standard pattern for comparing different solutions is not applicable. There are 2 graphs, and 7 references, 3 of which are deviet. Card 1/2 2 English, 1 German and 1 American.

The Investigation of Eva; oration Heats of Solutions of Some Deuterium

ASSOCIATIONS: Kiyevskiy grouterstvennyy universitet (Kiyev State University)

PRESENTED: By Sember of the AS UkrASR, A 1. Bredskiy

SUBMITTAD: May 9, 1957

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the trans-

GOLIK, A.Z. [Holyk, O.Z.]; RYNDICH, N.A. [Ryndych, N.A.]; BABHEKO, S.A.

Viscosity of a Sn - Bi system [with summary in English]. Ukr.
fiz. zhur. 3 no.3:365-369 My-Je 158. (MIRa 11:10)

1. Kiyevskiy gosudarstvennyy universitet.
(Systems (Chemistry)) (Viscosity)